Panasonic

Operating Instruction

Colour Television

TX-29S95Z

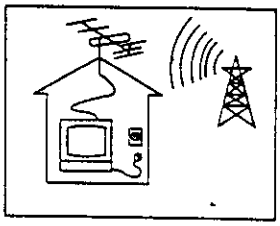
Please read the operating instructions completely before operating this set.

TQB4G0584

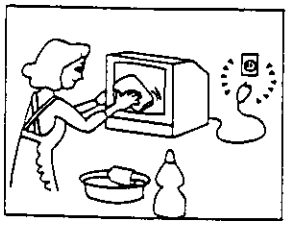
Dear Panasonic customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new colour television.

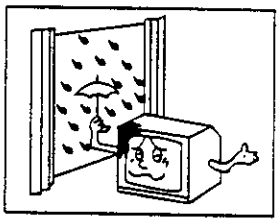
Safety Instructions



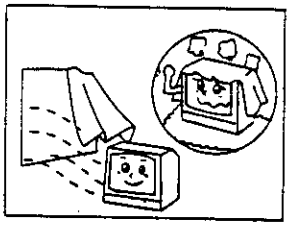
The TV set can be operated on AC SINGLE 230V, 50Hz.



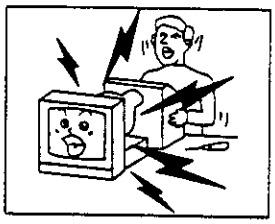
The cabinet and picture tube can be kept in good condition by simply wiping with a clean, soft cloth moistened with mild detergent and water. Do not use solutions containing benzol, petroleum or a chemical cloth. For safety, remove the plug from the wall outlet.



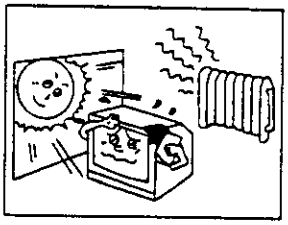
To prevent damage which may result in fire or electrical shock, do not expose the TV set to rain or excessive moisture.



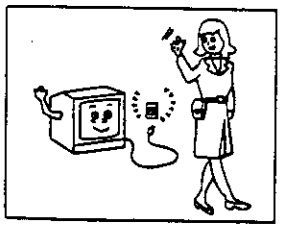
Adequate ventilation is essential to prevent failure of electrical components.



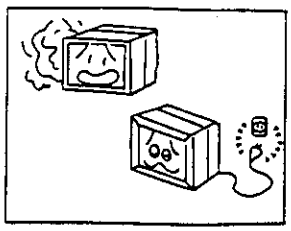
Do not remove the rear cover, as live parts are accessible when it is removed.



Avoid exposing the TV set to direct sunlight and other source of heat.



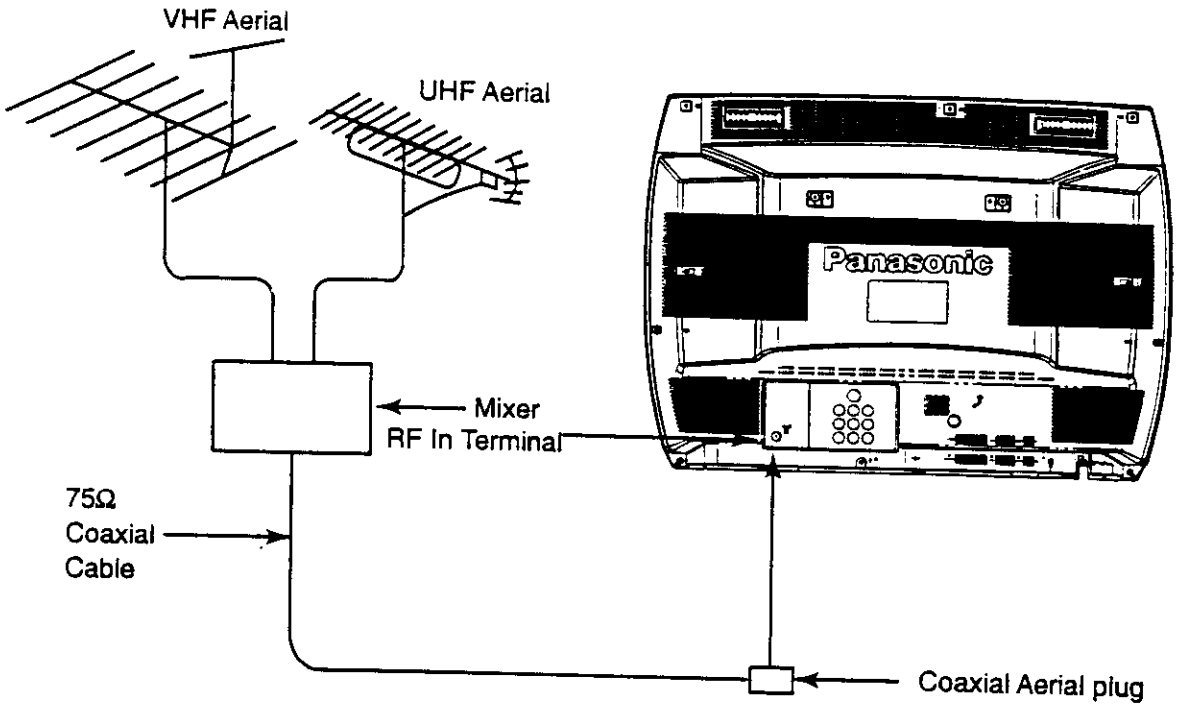
Remove the plug from the wall outlet (Power point) when the TV set is not used for a prolonged period of time.



Do not use this set if abnormal operation occurs.
EX: smoke, odd sounds or smells, turn the power switch off and disconnect the AC power if you notice any unusual operation.

Before Operating This Set

Connect the Aerial Cable to the RF In Terminal



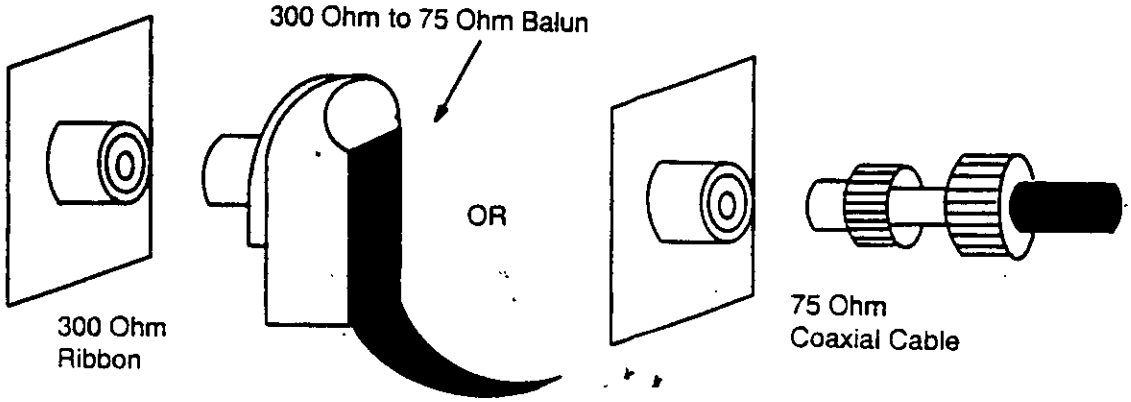
To obtain the best quality picture and sound, an external antenna, the correct cables (75 Ohm coaxial) and the correct terminating plug will be required.

If a communal antenna system is used, you may require the correct connection cable and plugs between the wall antenna socket and your television receiver.

Your local Television Service Dealer may be able to assist you in obtaining the correct antenna system for your particular area and accessories required.

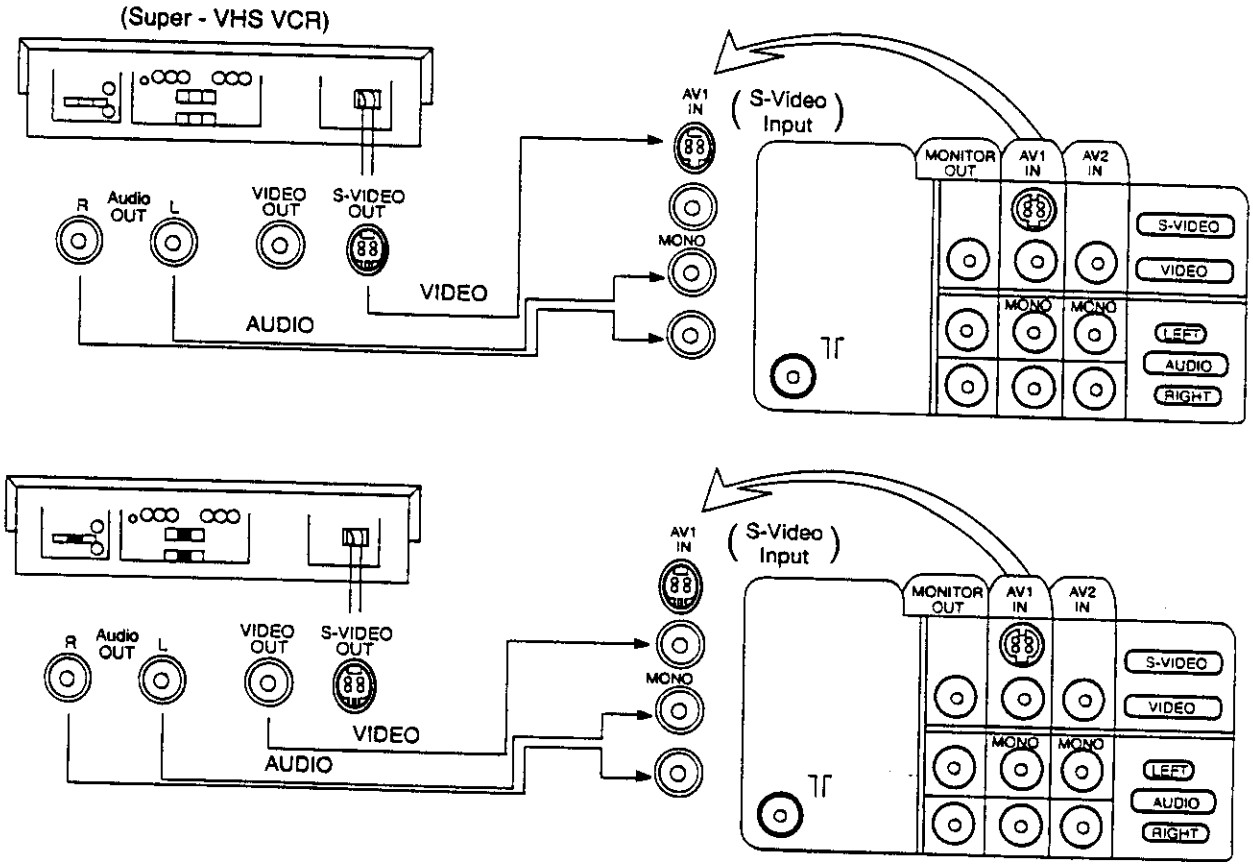
Any matters about antenna installation, upgrading of existing systems or accessories required, and the cost incurred, are the responsibility of the customer.

Note :
If your existing antenna system uses 300 Ohm to 75 Ohm Balun, see Below.



Connections

How to connect the "AV1 or AV2" Input Terminals.



Note :

1. When Blue Back function is selected ON and that AV mode has no input picture signal, the background colour of the TV screen will change to blue screen. (Refer to Blue Back function for details)

2. When the S–Video cable is connected to the S–Video terminal, The Phono Video input will be automatically switched off for that AV mode. AV-[S] indication will appear on the top left of the screen.

3. When a Monaural VCR is used, connect the Monaural Audio cable to the Audio "L" (Left) terminal.

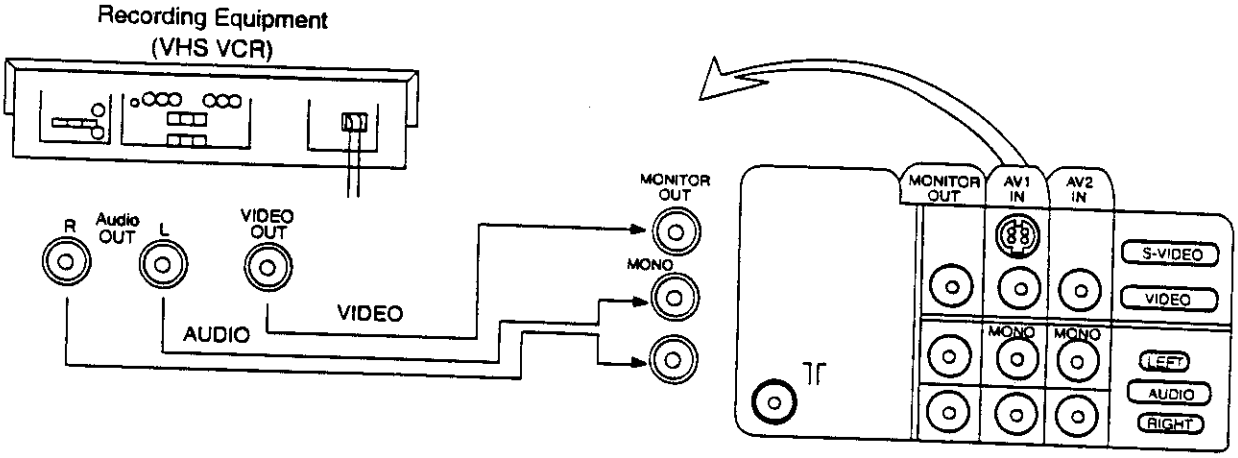
4. Similar connections are available at the AV1 and AV2 input terminals.
   Select the desired AV input position by pressing the TV/AV button (Refer to page 8).

5. AV2 have two terminals, front AV2 and rear AV2 terminal. In case both terminals have the Input, mechanical switch will switch off the rear input and only front AV2 signal could be seen on the screen.

Connections

How to connect the AV MONITOR OUTPUT terminals to the other equipment.

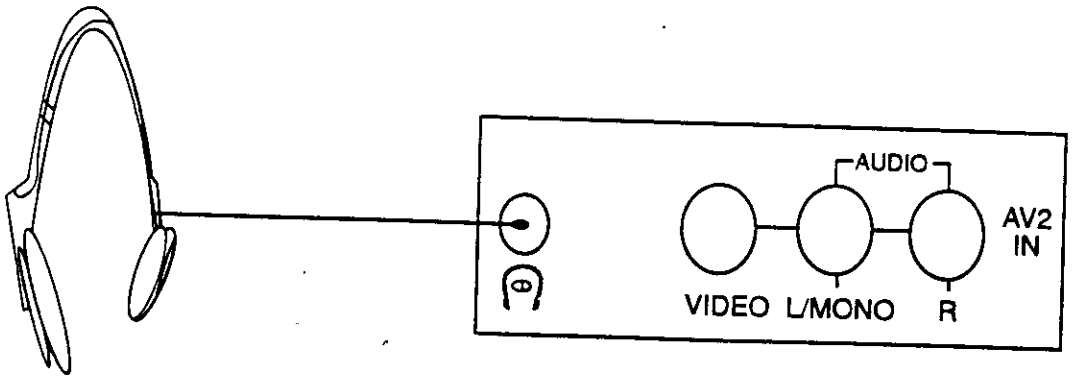
The monitor out terminal output the same signals as on the TV screen at that time.
e.g. TV programmes or signals from AV1 or AV2 input.



Note :
(1) Never connect the same video recorder with both the VIDEO IN and MONITOR OUT terminals on this TV set, as this could cause incorrect operation.

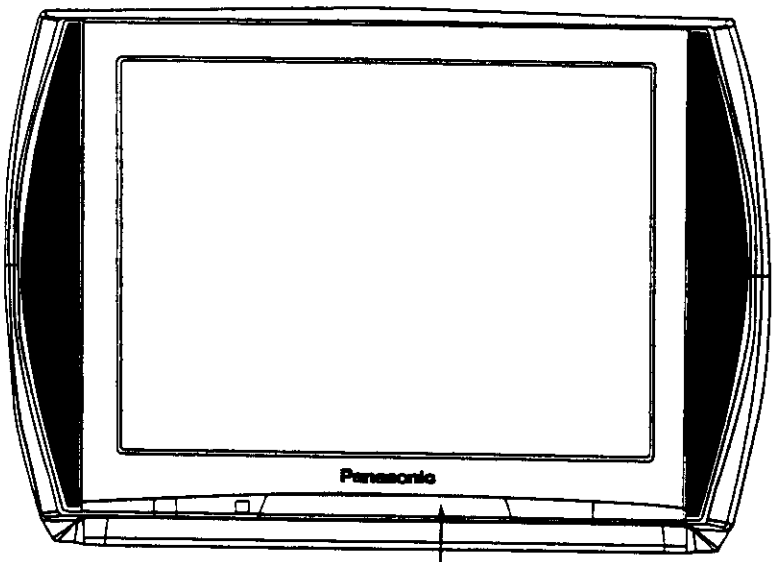
Connecting Headphones.

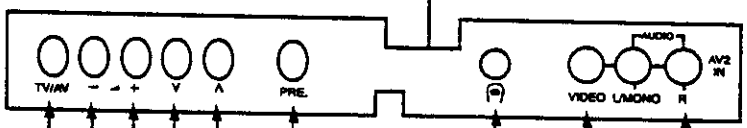
When a headphones plug is inserted into the Headphones socket all speakers will be automatically disconnected; only the Headphones will function.



(Optional)
(not supplied)

Location of Control (TV)





TV / AV button

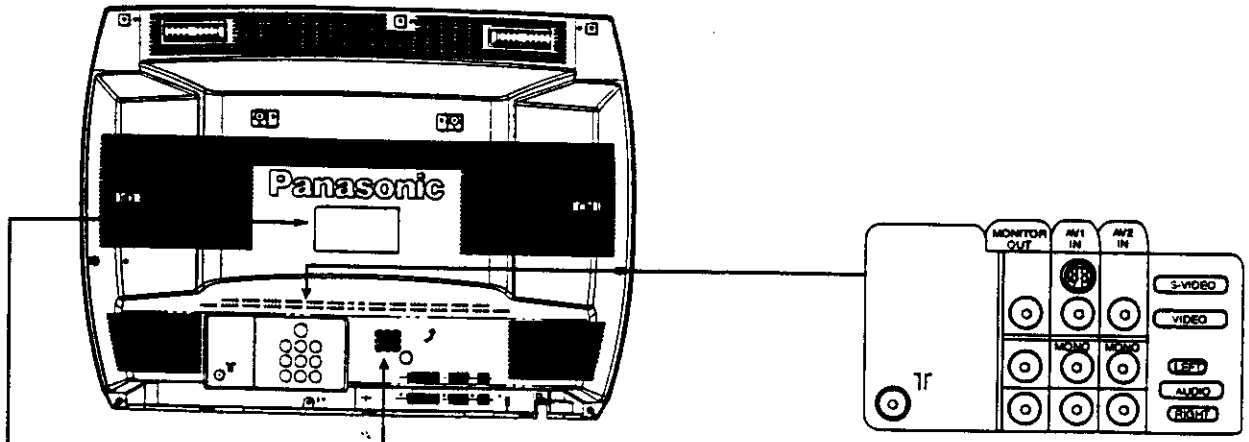
Volume Up and Down Buttons

Channel Up and Down Buttons

Preset button

Headphones

AV2 IN

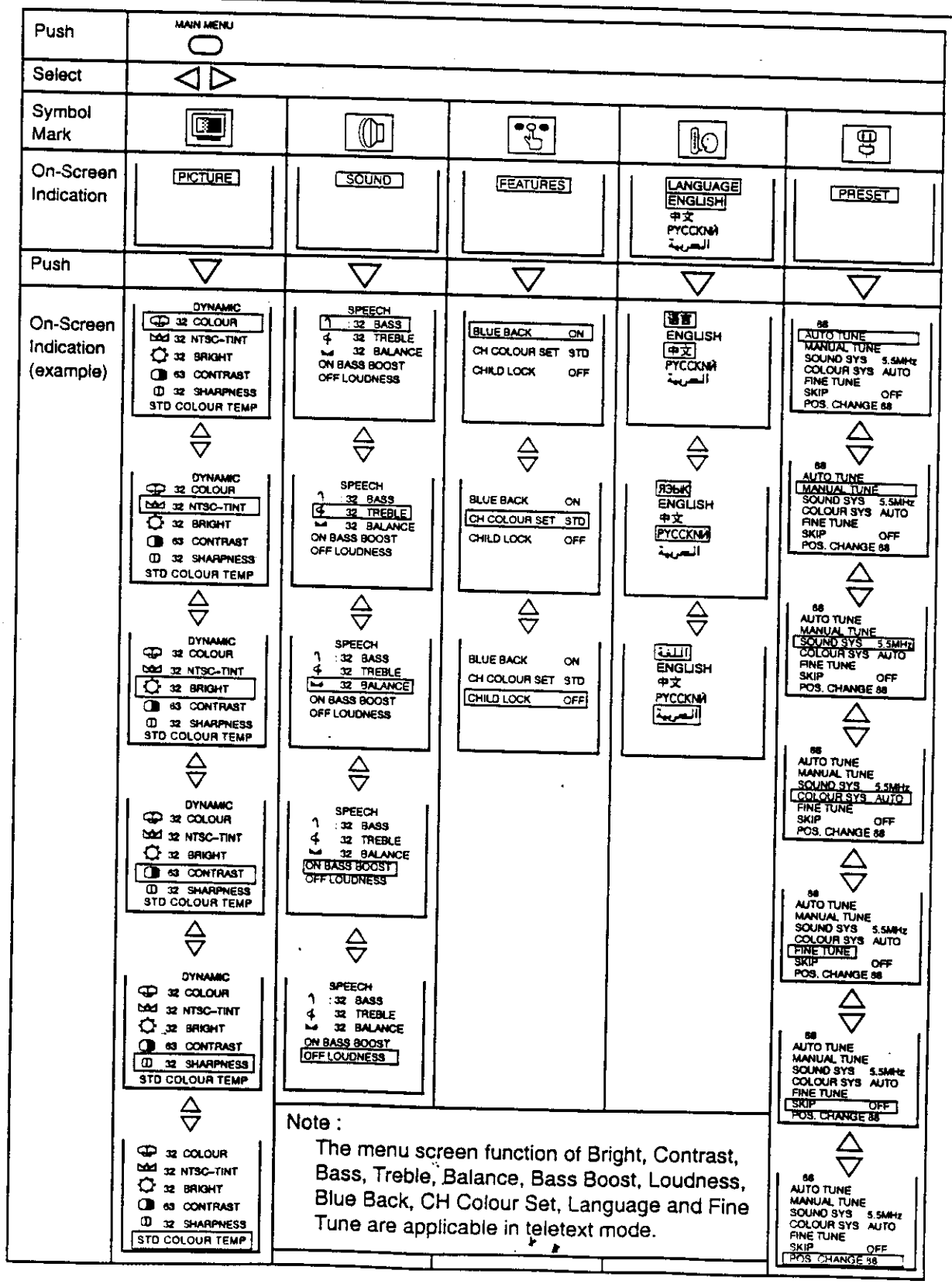


Model Name Plate

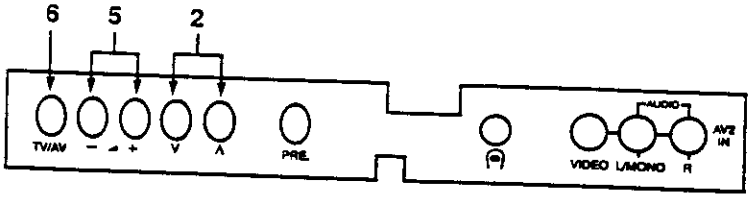
Serial Number

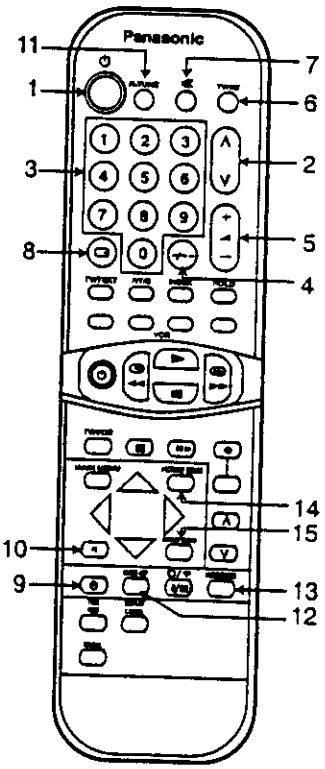
Flow Chart of Main Menu

When the "MAIN MENU" button is pushed at the main menu screen, the screen display will return to the normal viewing condition. When the "MAIN MENU" button is pushed at each MENU screen (Picture, Sound, Peatures, Language, Preset), the screen display will return to the Main Menu screen.



General Operation

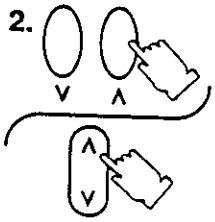




1.

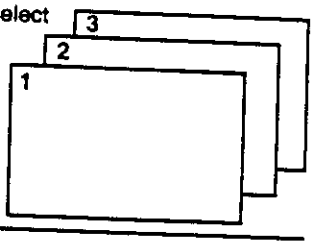
To Switch Power on/off

The TV set must be switched on at the wall outlet and at the Main power switch. Press this button to turn the TV set ON, from stand-by mode.Press it again to turn off.

2. 

Programme Number Selection

Press the programme number Up " ∧ " or down " v " Button to select the next higher or lower programme number.

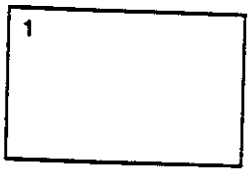


3.

Direct Programme Number Selection

(0 - 9)

e. g. To select programme number "1", press the "1" button.



4.

Two Digit Programme Number Selection

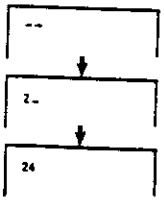
e.g. To select Programme Number "24".

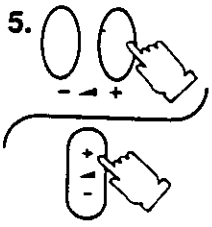
Push the -/-- button.

Push the 2 button.

Push the 4 button.

Setting range	0 ~ 99



5. 

Volume Adjustment

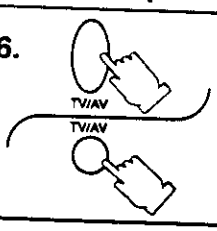
Push the Volume Up or Down button to increase or decrease the sound volume level.

Note :

The on screen display will indicate both numerically and graphically the volume level.Numeric levels start at " 0 " for zero or no sound, and will increase up to 63 which is the maximum sound level.

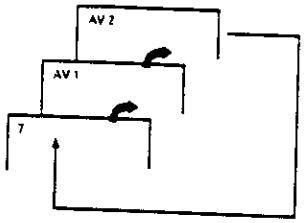
General Operation

6.

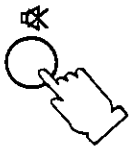


TV / AV Selection

Push the " TV/AV " button to select TV, AV1 and AV2 input signal modes sequentially.

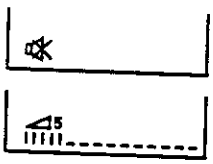


7.



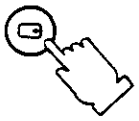
Sound Mute Button

Push this button to mute the Sound completely.
Push the button once again to restore the previous sound level, and cancel the mute.



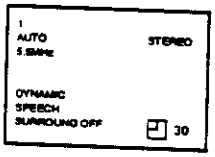
The " Mute " symbol will appear. (Colour changes to red)

8.



Recall Button

Push the RECALL button to display the current system status.
Press this button until display is cancelled.

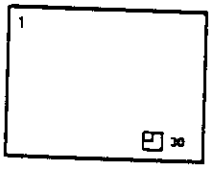


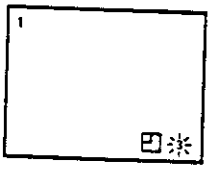
9.

Off Timer Button

The TV set may be preset to switch to stand-by after a fixed period.
By pressing "Off-Timer" button, you can select the preset time either 30, 60, or 90 minutes.

30 → 60 → 90
0 ← AUTO





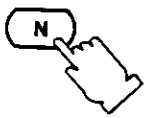
When the off-timer reaches its last 3 minutes, it starts blinking before going to stand-by condition.

Note :
Setting Off-timer to AUTO mode.If the set is not switched off, when the TV station ends broadcasting, it will automatically go to the stand-by condition after 5 minutes. This AUTO mode will not operate when the TV receiver is in AV mode.

How to cancel the OFF-timer setting:

1. Set the preset time condition to "0" mode by pressing the Off - timer button.
2. Turning the TV set off.

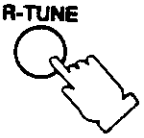
10.



Normal (N) Button

By pushing the Normal "N" Button on the Remote Control while Picture or Sound Control Function is displayed, the Selected function will be changed to the Normal Mode. Normalization will not occur if the function is not displayed when the "N" button is pushed. The Normal mode is the factory preset condition. Returning to this original condition is called "Normalization".

11. R-TUNE

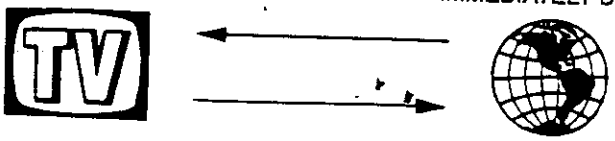


Rapid Tune Button

Push the button to acess previously viewed channels.

CHANNEL NOW BEING VIEWED

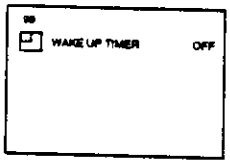
CHANNEL TUNED IMMEDIATELY BEFORE



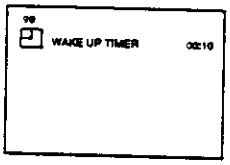
General Operation

12. Wake Up Timer Button.

1. Press the " WAKE UP TIMER" button.



2. Press the position left or right button to select the wake up timer. (Wake up timer will increase or descrease by 10 minutes when each times press the position left or right button.)

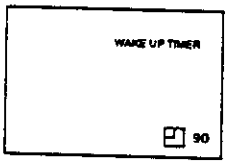


Note :

Wake up time can be set up to 12 hours.

3. After setting the wake up timer, switch the TV set to stand-by mode. (LED light will blink ON and OFF during stand-by mode)

4. When the time reached to the wake up timer setting the set will automatically on. (Press any button to cancel the wake up timer on screen display.)



Note :

i) After the wake up time is set and the TV is still not switch off, the wake up timer will continue to count down until the timer is off.

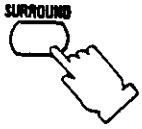
ii) When wake up timer switch ON the TV set, the off timer is set to 90 minutes automatically. Press any button to cancel the off-timer. If no button is pressed, the TV set will switch off automatically after 90 minutes.

5. To cancel the wake up timer.

i) Switch off the main power.
ii) Press the position left or right button, until OFF is reached.
iii) Press the Normalize button. When wake up timer OSD is displayed.

General Operation

13. SURROUND



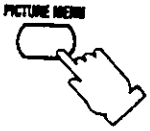
Surround Sound Operation

The benefit of surround sound are enormous. With additional speakers you can be completely enveloped in sound; just as if you were at a concert hall or cinema. The surround effect does operate without external surround speakers, but is enhanced when they are connected. Such near surround speakers should not be sited in direct proximity to the listeners.

On-screen display during surround mode.

	Type of broadcast	ON-Screen display
TV Mode	MONO	MONO SURROUND ↕ SURROUND OFF
TV Mode	STEREO	STEREO SURROUND ↕ SURROUND OFF
AV Mode	Select AV mode	STEREO SURROUND → MONO SURROUND → SURROUND OFF →

14. PICTURE MENU

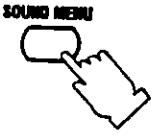


Picture Menu Operation

By pressing the PICTURE MENU button, you can sequentially select the Picture menus as shown below:

On-screen	Function
DYNAMIC	For watching in brighter environments. This menu selects a higher than normal level of contrast.
STANDARD	For watching in normal (evening) environments. This menu selects normal level of brightness and contrast.
SOFT	For watching in dark environments. This menu selects reduced level of contrast.

15. SOUND MENU



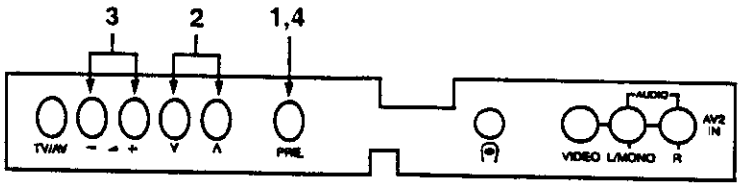
Sound Menu Operation

By pressing the SOUND MENU button, you can sequentially select the Sound menus as shown below:

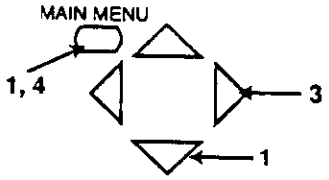
On-screen	Function
MUSIC	For music programme for example.
SPEECH	For News programme for example.
MOVIE	For movie programme for example.

Tuning Procedure

Manual Tune

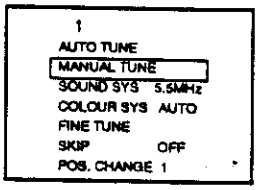


OR

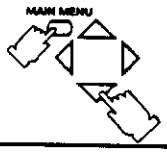


1.

Press the "PRE" (PRESET) button twice, setting the Manual Tune mode.

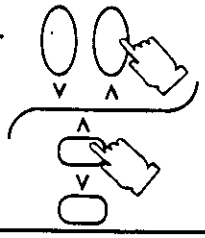


Channel Number
Manual Tune condition.

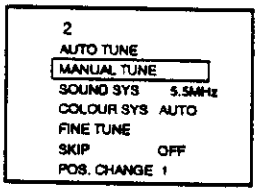


Press the "MAIN MENU" and "Position" buttons, until "MANUAL TUNE" function is selected.

2.

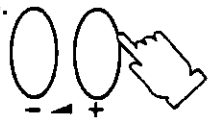


Press either the Channel Up or Down button.

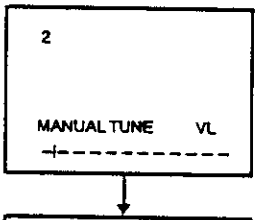


Select the desired Channel Number.

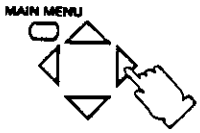
3.



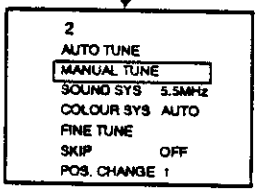
Press the Volume Up " + " or Down " – " button.
Volume " + " : Next higher Channel
Volume " – " : Next lower Channel



Search Start.



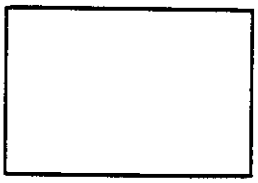
Press the Position Left or Right button.
Position left : Next lower Channel.
Position right : Next higher Channel.



The best tuning position is automatically memorized.

4.

Press the "PRE" (PRESET) button 6 times.

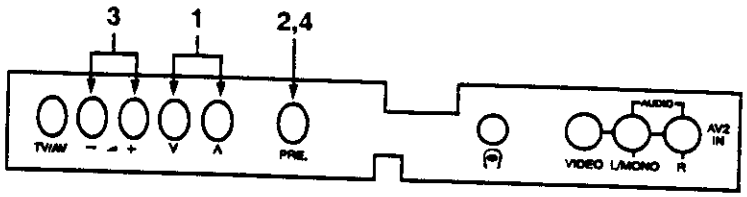


This returns the set to the normal viewing condition.

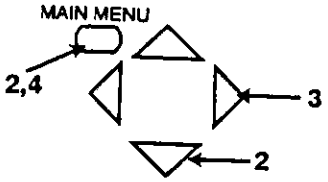
Press the "MAIN MENU" button twice.

Tuning Procedure

Fine Tune

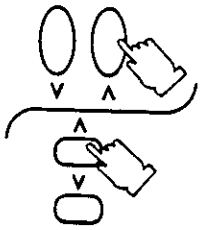


OR

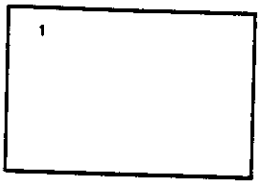


Under normal reception condition, this function is not used. However, in areas of poor reception or constant interference, a slight adjustment on the fine tuning can improve the picture and sound quality.

1.



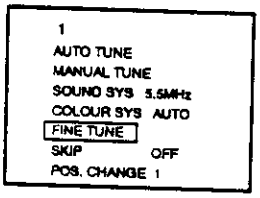
Select the channel which you want to try to improve, using the Channel Up or Down buttons.



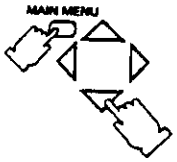
Select the desired Channel Number.

2.

Press the " PRE." (PRESET) buttons 5 times, setting the Preset Menu to "Fine Tune".



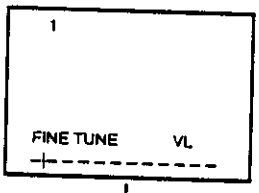
Fine Tune condition.



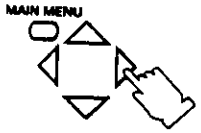
Press the "MAIN MENU" and "Position" buttons, until "FINE TUNE" is selected.

3.

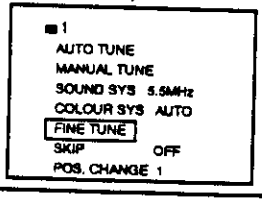
Press the Volume Up " + " or Down " – " button until the picture is received.



Fine Tune Start.



Press the Position Left or Right button until the picture is received.

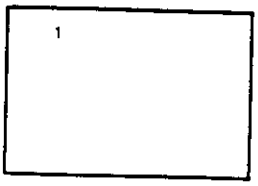


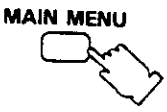
The AFC (Automatic Frequency Control) function is deactivated. The " ■ " symbol appears to the left of the Channel Number.

4.

Press the "PRE" (PRESET) button 3 times.

This returns the set to the normal viewing condition.

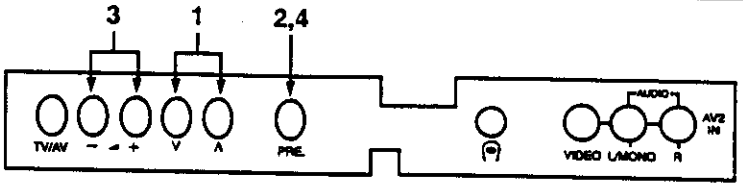




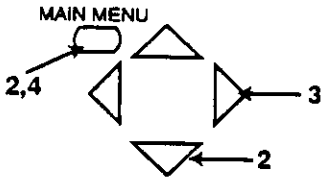
After all stations are tuned, press the "MAIN MENU" button twice.

Tuning Procedure

How to cancel the Fine Tuning

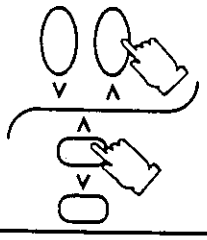


OR

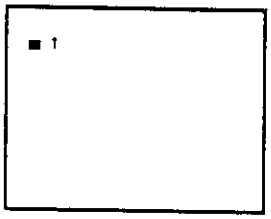


Cancelling previously adjusted (manually) fine tuning, means re – activating the AFC (Automatic Frequency Control) Function, also known as AFT (Automatic Frequency Tuning). Re – activating the Automatic Frequency Tuning means albaming the set to automatically tune optimum tuning position, for that Channel Number.

1.

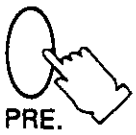


Select the "AFC OFF" Channel Number which you want to return to Automatic Frequency Control (Cancel the manual fine tuning).

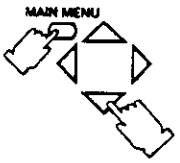


"AFC OFF" Channel Numbers are indicated to you by the " ■ " symbol to the left of the Channel Number.

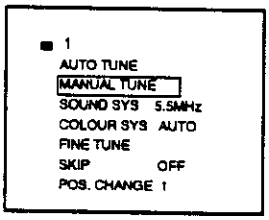
2.



Press the " PRE." (PRESET) buttons twice, to set to "MANUAL TUNE" mode.

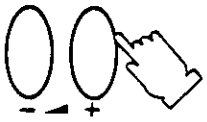


Press the "MAIN MENU" and "Position" buttons, until "MANUAL TUNE" function is selected.

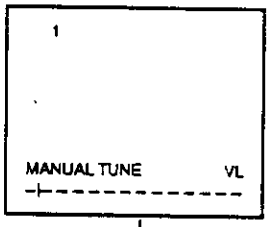


Manual Search condition.

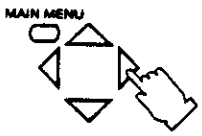
3.



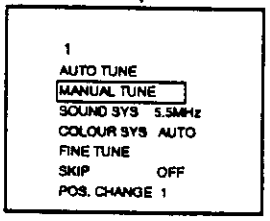
Press the Volume Up " + " or Down " – " button briefly.



The best tuning position is automatically memorized.



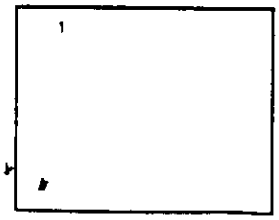
Press the Position Left or Right button briefly.



4.

Press the "PRE" (PRESET) button 6 times.

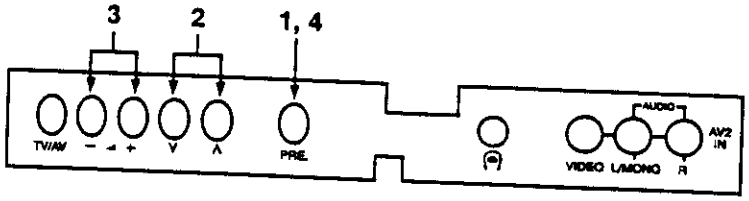
Press the "MAIN MENU" button twice.



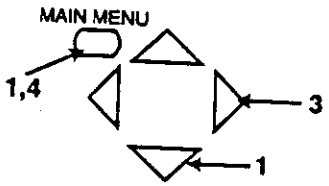
This returns the set to the normal viewing condition.

Tuning Procedure

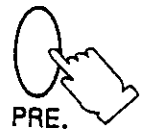
How to Skip Programme Number



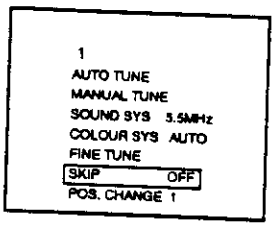
OR



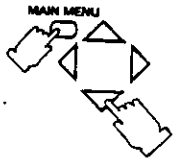
1.



Press the " PRE." (PRESET) button 6 times, setting the Preset Menu to "SKIP".

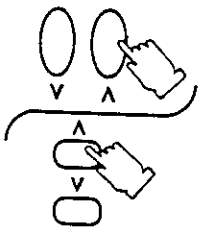


Channel Skip condition.

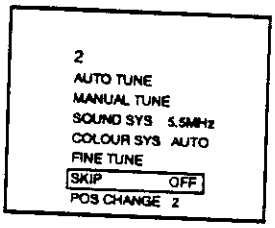


Press the "MAIN MENU" and "Position" buttons, until the "SKIP" is selected.

2.



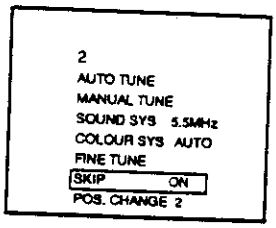
Select a Programme Number you want to skip, by pushing the Channel number Up or Down buttons.

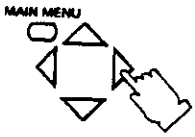


3.

Press the Volume Up " + " or Down " – " button.

The displayed "OFF" condition changes to "ON".

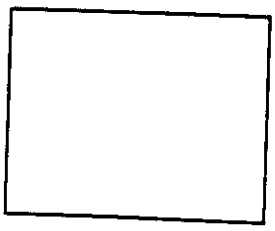




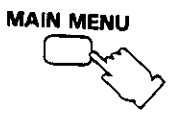
Press the Position Left or Right button.

4.

Press the "PRE" button twice.



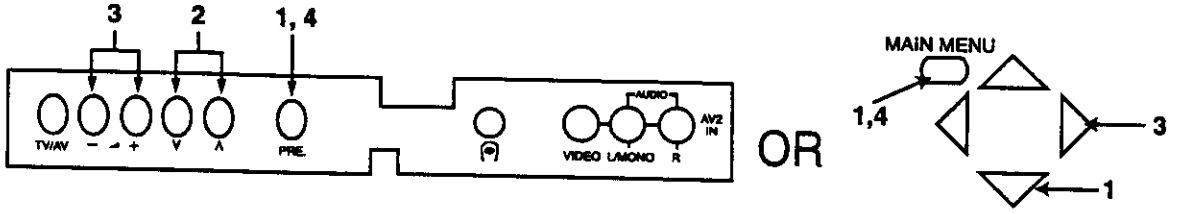
This returns the set to the normal viewing condition.



Press the "MAIN MENU" button twice.

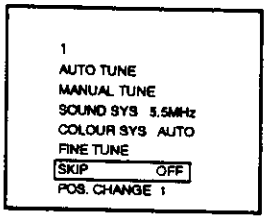
Tuning Procedure

How to Cancel the Skip Function.

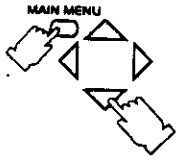


1.

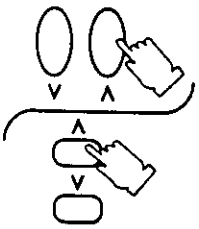
Press the " PRE." (PRESET) buttons 6 times, setting the Preset Menu to "SKIP".



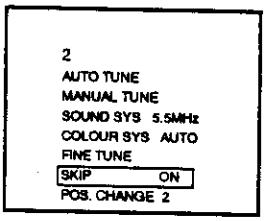
Channel Skip condition.

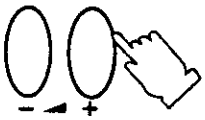


Press the "MAIN MENU" and "Position" buttons, until "SKIP" is selected.

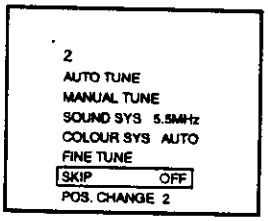
2. 

Select the skipped Programme Number, by pressing the Channel Number Up or Down buttons.

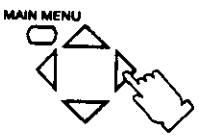


3. 

Press the Volume Up " + " or Down " − " button.



The displayed "ON" condition changes to "OFF".

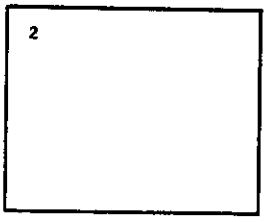


Press the Position Left or Right button.

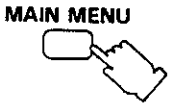
Repeat step 2 and 3, if you wish to cancel the Skip function on any other programme number.

4.

After the Skip Cancel operation is completed, press the " PRE " button twice.



This returns the set to the normal viewing condition.

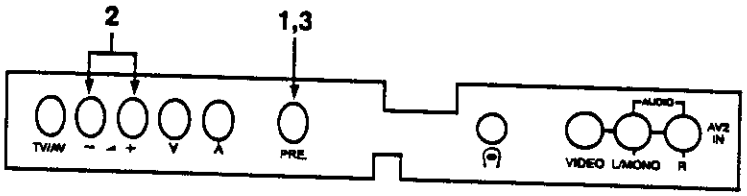


After the Skip Cancel Operation is completed, press the " MAIN MENU " button twice.

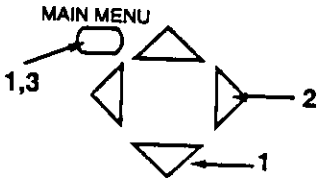
Tuning Procedure

Colour System Selection

Use this function if a clear picture with weak colour is obtained when a Broadcast or AV signal is received.

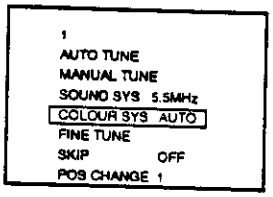


OR

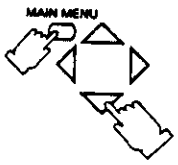


1.

Press the " PRE." (PRESET) button 4 times.



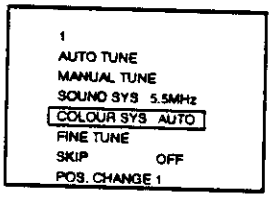
Colour System condition.



Press the "MAIN MENU" and "Position" buttons, until "COLOUR SYS" is selected.

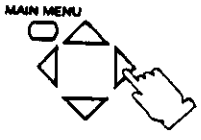
2.

Press the Volume Up " + " or Down button, " – " repeatedly until the optimum image is produced.



The Colour system will change as shown:

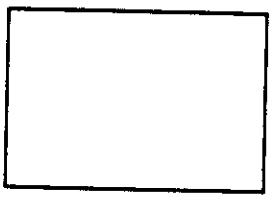
AUTO ↔ PAL ↔ SECAM
NTSC 3.58 ↔ NTSC 4.43



Press the Position Left or Right button repeatedly until the optimum image is obtained.

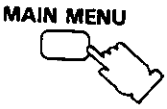
3.

Press the "PRE" (PRESET) button 4 times.



This returns the set to the normal viewing condition.

This selected Colour System is automatically memorized.

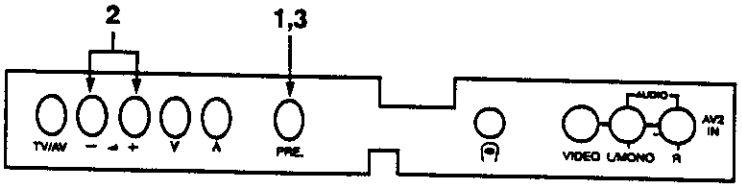


Press the "MAIN MENU" button twice.

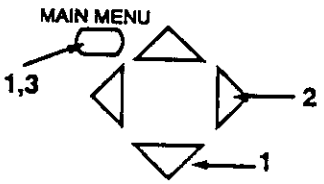
Tuning Procedure

Sound System Selection

This function is used only in the TV mode, and is not applicable in AV mode.
When the sound is not clear or no sound is produced on a channel.



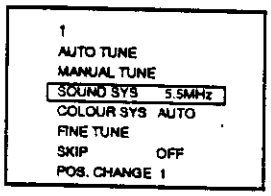
OR

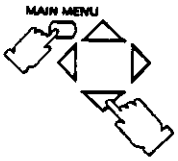


1.

Press the " PRE." (PRESET) button 3 times.

Sound System condition.

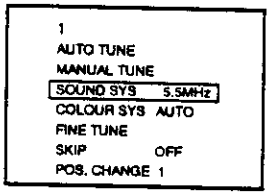




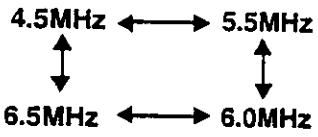
Press the "MAIN MENU" and "Position" buttons, until "SOUND SYS" is selected.

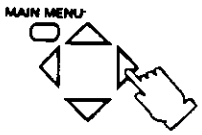
2.

Press the Volume Up " + " or Down button " – " repeatedly until the optimum sound is obtained.



The Sound system will change as shown:

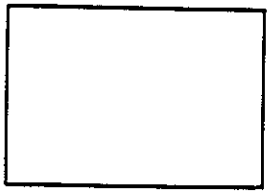




Press the Position Left or Right button repeatedly until the optimum sound is obtained.

3.

Press the "PRE" (PRESET) button 5 times.



This returns the set to the normal viewing condition.

This selected Sound System is automatically memorized.

Press the "MAIN MENU" button twice.

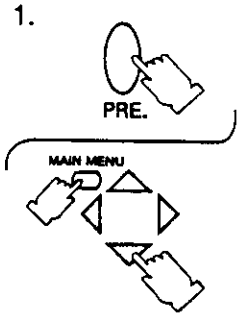
Tuning Procedure

Pos. Change

This feature will enable the user to swap (Exchange) Channel Memory of 2 selected channels.

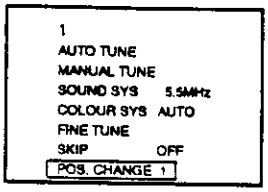
The position change function is be able to shift the present channel to any programme number without doing any tuning process.

1.

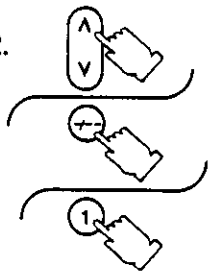


Press the " PRE." (PRESET) button 7 times.

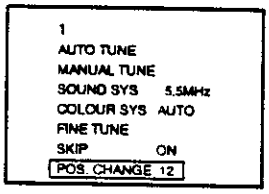
Press the "MAIN MENU" and Position button until "POS. CHANGE" is selected.



2.



Select a Programme number you want to change by pushing either channel UP or DOWN button, two digit programme selection or Direct Programme number selection on the remote control.
Position-change function will only exist in preset mode.



Note:
Position change can be also operated by using the panel key. Use PRESET key to enter POSITION CHANGE, then, use volume up/down to change the channel or to swap to TV/AV.

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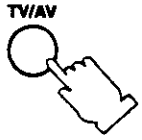
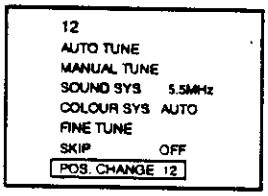
3. TV/AV



Press the "TV/AV" button to confirm.



This returns the set to the normal viewing condition.

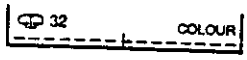
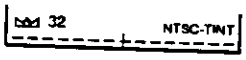
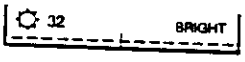
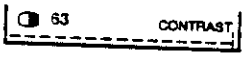
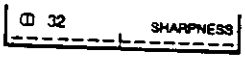
MAIN MENU

Press the "MAIN MENU" button twice.

Advanced Remote Control Operation

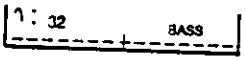
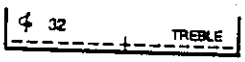
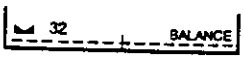
Picture Menu Operation (Refer to page 6)

Picture Menu

Push	Item	Effect	Indicator
△▽ Select	COLOUR	◁ ▷ Less More	
△▽ Select	NTSC-TINT	◁ ▷ Greenish Reddish	
△▽ Select	BRIGHT	◁ ▷ Darker Brighter	
△▽ Select	CONTRAST	◁ ▷ Less More	
△▽ Select	SHARPNESS	◁ ▷ Less More	
△▽ Select	COLOUR TEMP	◁ ▷ STD↔WARM	COLOUR TEMP

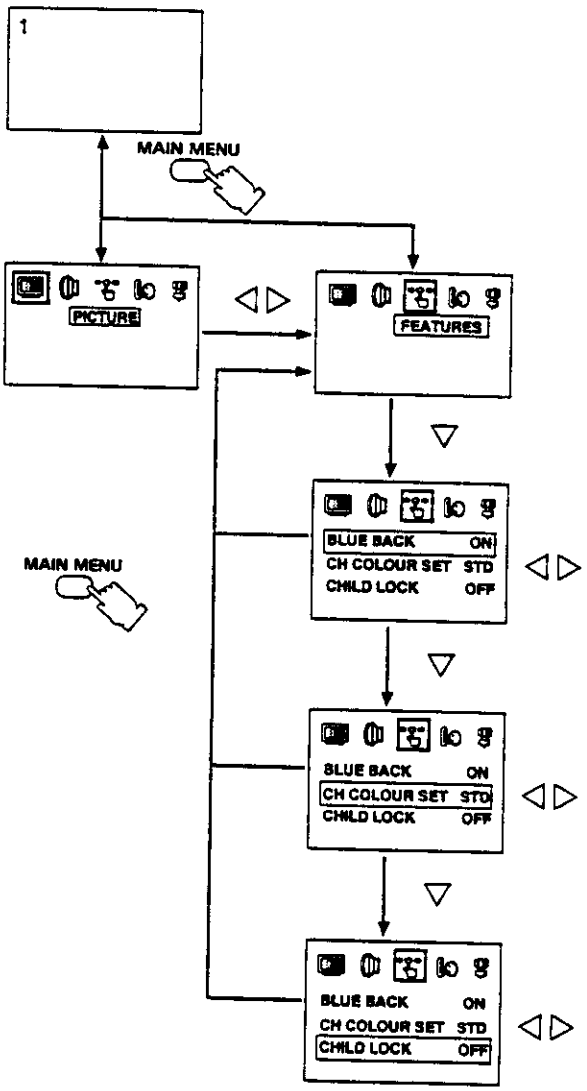
Sound Menu Operation (Refer to page 6)

Sound Menu

Push	Item	Effect	Indicator
△▽ Select	BASS	◁ ▷ Less More	
△▽ Select	TREBLE	◁ ▷ Less More	
△▽ Select	BALANCE	◁ ▷ Left SP. Right SP.	
△▽ Select	BASS BOOST	◁ ▷ ON ↔ OFF	BASS BOOST
△▽ Select	LOUDNESS	◁ ▷ ON ↔ OFF	LOUDNESS

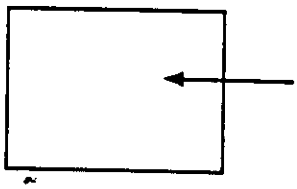
Advanced Remote Control Operation

FEATURES Menu Operation



BLUE BACK Mode.

When no picture signal is received, or the signal is weak, the screen reverts to a blue background colour and the sound is muted.
Disable this features to continue watching very weak signals.



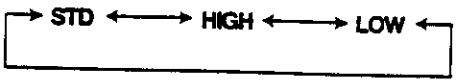
Blue background colour if no input picture signal or input signal is weak.

Note :

If BLUE BACK Mode is set on while a VCR signal is being viewed, selecting CUE or REVIEW may cause the screen to revert to the blue background colour. Disable this feature to view correctly.

CH (Channel) COLOUR SET mode.

Colour density varying between broadcast channels can be adjusted to three levels for each reception channel as follows :



CHILD LOCK mode.

To child lock any channel, press the position left or right button.

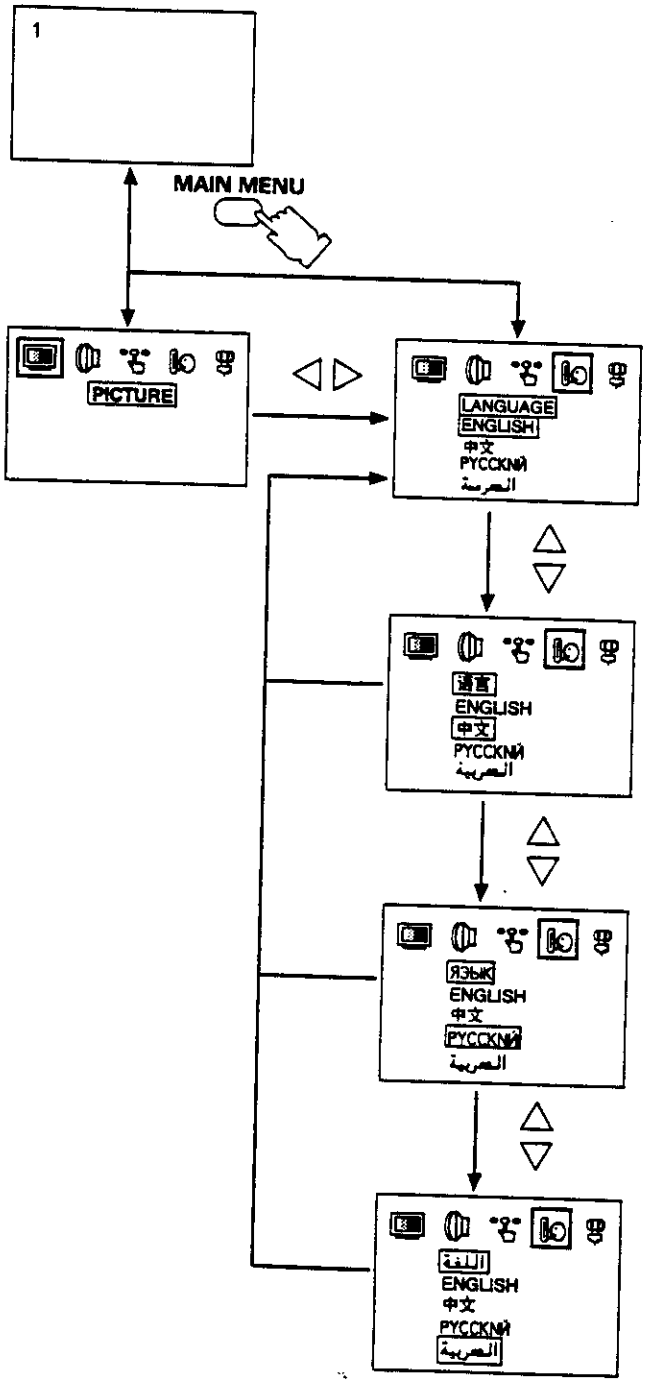
1) When channel is "LOCK", sound is muted and screen becomes blue colour.
2) If any of the channels is CHILD LOCK, then preset key at any panel will not work. If preset key (Panel) is pressed, message "CHILD LOCK ON" will appear.
3) Main power ON in child locked channel will display "CHILD LOCK ON" on screen to remind user that the Child lock is On and is in Child locked channel.
4) Each channel has its own memory for channels to be child locked.

Advanced Remote Control Operation

Language Menu Operation

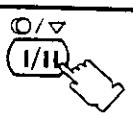
Language Menu

Press th "Position Up or Down" button. The on-screen language display will change as follows :

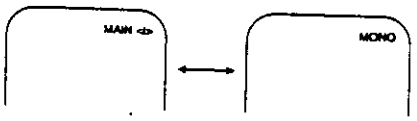
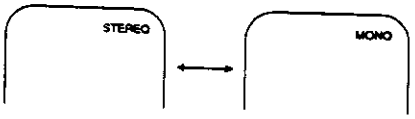
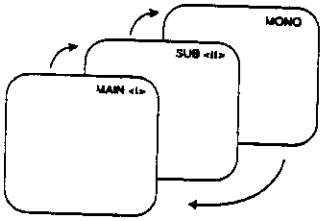
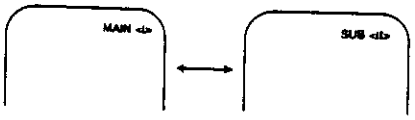
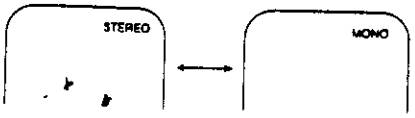


Advanced Remote Control Transmitter Operation

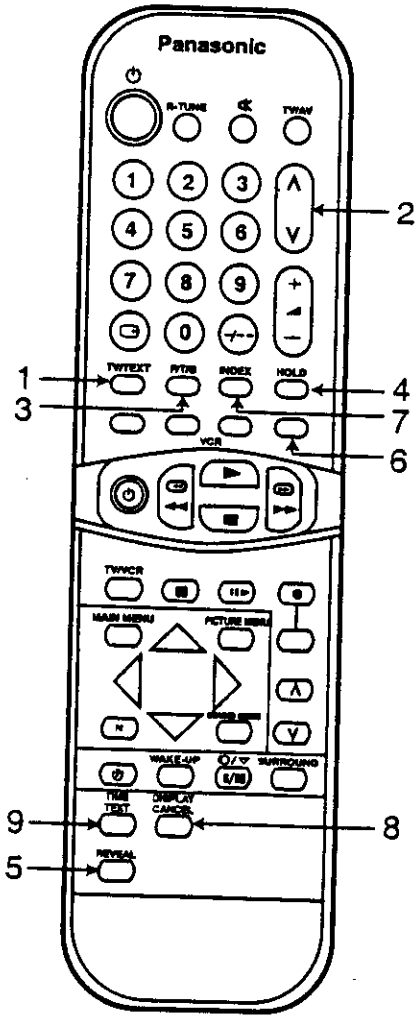
1. Stereo Reception



Stereo / Bilingual Sound Selection Button
Sound output modes can be selected by pressing the "Sound Selection" Button.
STEREO, BILINGUAL (if transmitted) and MONO modes can be selected using this button.

	Types of Broadcast	On-screen Indication	Remarks
NICAM Digital Stereo	Regular Boardcast (Standard Audio)		Normal use
	Regular + NICAM MONO I [MAIN <I>]		You can select either the "MAIN <I> or "MONO" audio signal
	NICAM STEREO		You select either the "STEREO" or "MONO" mode.
	NICAM DUAL MONO MAIN <I> / SUB <II>		You can select either the "MAIN <I>, SUB <II> or MONO".
A2 (German) Stereo	Regular Broadcast (Standard Audio)		Normal use
	BILINGUAL or DUAL MONO MAIN <I> / SUB <II>		You can select either the "MAIN <I> or SUB <II> audio signal".
	STEREO		You can select either the "STEREO" or "MONO" mode.

Teletext Operation



1. TV/TEXT

TV/Teletext mode

By pushing the TV/TEXT button, to change the TV/Teletext mode as follows:

TV → TEXT

2.

Page Selection

Page can be selected in two ways:

a) Push the Up / Down Buttons to increase or decrease the page number by one.

b) By entering the page number, using 0 ~ 9 on the remote control.

3. F/T/B

Full/Top/Bottom

Push to expand the Top of the page.
Push again to expand the Bottom half.
Push again to return to normal (Full) size.

4. HOLD

Hold

Push to hold the current page.
Push again to cancel the hold.

5. REVEAL

Reveal

Push to reveal hidden words.
e.g. quiz page answer.
Push again to hide.

6.

Colour-coded buttons

Red Green Yellow Light Blue

In Fastext mode these correspond to the differently coloured subjects.

7. INDEX

Index

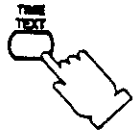
Push INDEX to return to the main index page.

8. DISPLAY CANCEL

Display Cancel

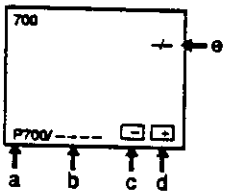
Push the "DISPLAY CANCEL" button to view the normal TV programme.
When the desired sub-page is received, the "TEXT" message appears at the top left of the screen.

Teletext Operation

9. 

TIME TEXT

The Required Teletext page must be selected. When the "TIME TEXT" button is pressed, the on-screen will be changed as follows :

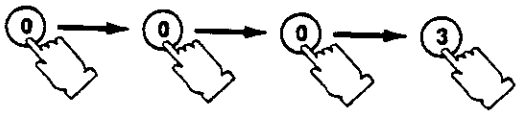


a - Selected Page Number
b - Selected Sub - page Number
c - Sub - page Number Down
d - Sub - page Number Up
e - Sub - page Number

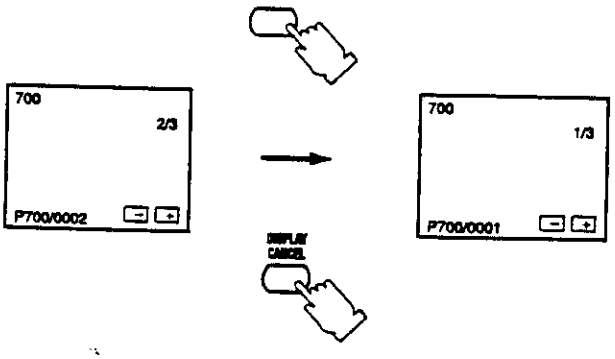
If the selected page number contain sub-page number, the required sub - page number can be select by :

1. Press the Sub - page number Up (green colour button)
2. Press the Sub - page Number Down (red colour button)
3. Press ther Direct Programme Number Buttons, or
4. Programme Number Up or Down Buttons

e.g. To change sub - page 2 to sub - page 3 by pressing the Direct Programme Number buttons.



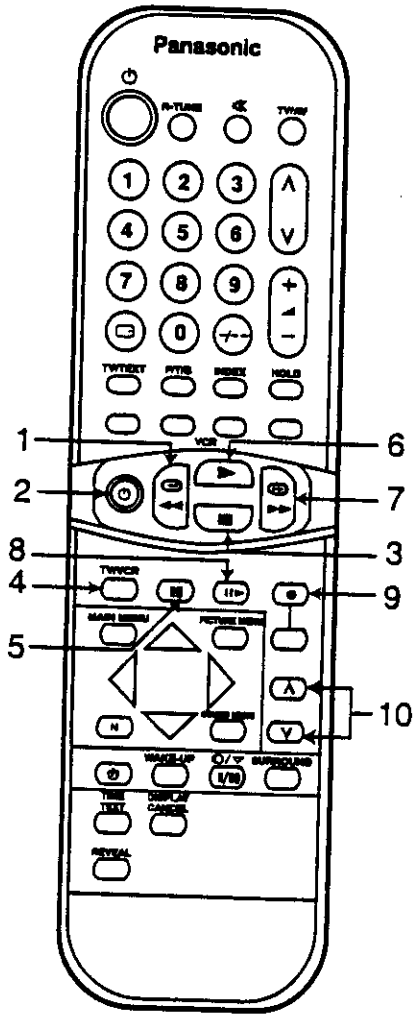
e.g. To change sub - page 2 to sub - page 1 by pressing the Sub - page Number Down Button (Red button).



Press DISPLAY CANCEL to view a normal TV programme.

Operation of VCR

Your remote control is designed to be used with selected Panasonic/National VCRS.
Some VCR model have different functions, so please refer to the individual VCR instruction manual to ensure compatibility.



1. Rew (Rewind)/Review Button

2. VCR Power Button

3. Stop Button

4.

TV/VCR Selection Button

5. Pause / Still Button

6. Play Button

7. FF (Fast forward) Cue Button

8. Still advance Button

9. Rec (Record) Button

10. Channel Up and Down Button for VCR

Troubleshooting

Before calling for service, determine the symptoms and make a few simple checks as shown below.

Symptoms		Checks
Picture	**Sound**	
Snowy Picture	Noisy Sound	Aerial Location, direction Connection
Multiple Image	Normal Sound	Aerial Location, direction Connection
Interference	Noisy Sound	Electrical Appliances Cars / Motorcycles Fluorescent Lamps
Normal Picture	No Sound	Volume (Check whether the mute function has been activated on the Remote Control.)
No Picture	No Sound	Not plugged into AC outlet Not switched on Contrast and Brightness / Volume Setting (Check by pushing the Power Switch or Stand-by Button on the Remote Control.)
No Colour	Normal Sound	Colour Control
Scrambled	Weak Sound	Re-tune Channels
Colour Patches	Normal Sound	Magnetic interference from unshielded equipment. Receiver moved while "ON"
No Colour Rolling Picture H-Line	Noisy Sound	System Button

Specifications

Power Source : AC SINGLE 230V, 50Hz
Power Consumption : 180 W
Receiving System :17 SYSTEM

	SYSTEMS	FUNCTION
1. 2. 3. 4. 5. 6. 7.	PAL B,G,H PAL I PAL D,K SECAM B,G SECAM D. K. SECAM K1 NTSC M (NTSC 3.58 / 4.5MHz)	Reception of broadcast transmissions and playback from video cassette tape recorders.
8. 9. 10. 11. 12. 13. 14.	NTSC 4.43 / 5.5MHz NTSC 4.43 / 6.0MHz NTSC 4.43 / 6.5MHz NTSC 3.58 / 5.5MHz NTSC 3.58 / 6.0MHz NTSC 3.58 / 6.5MHz SECAM I	Playback from special VCR only.
15. 16. 17.	PAL 60Hz / 5.5MHz PAL 60Hz / 6.0MHz PAL 60Hz / 6.5MHz	Playback from special Disc player and VCR only.

Receiving Channels :

VHF BAND	UHF BAND	CATV
2 – 12 PAL / SECAM B,K1 0 – 12 PAL B (AUS) 1 – 9 PAL B (N.Z) 1 – 12 PAL / SECAM D 1 – 12 NTSC M (JAPAN) 2 – 13 NTSC M (U.S.A)	21 – 69 PAL G,H,I / SECAM G,K,K1 28 – 69 PAL B (AUSTRALIA) 13 – 57 PAL D,K 13 – 62 NTSC M (JAPAN) 14 – 69 NTSC M (U.S.A)	S1 – S20 (OSCAR) S21 – S41 (HYPER) 1 – 125 (USA) C13 – C49 (JAPAN) 5A, 9A (AUS) Z1 – Z37 (CHINA)

Tuning System : Voltage synthesizer Auto search tuning 100 position.
Picture Tube : 68 cm, measured diagonally, 110° deflection
Audio Output : 7.5w × 2 (Speaker)
Aerial Impedance : 75Ω Unbalanced coaxial

Video/audio terminal :

AV1	S-Video in	Y: 1.0 Vp-p, 75Ω C: 0.3 Vp-p, 75Ω	AV2	Video in	1 Vp-p, 75Ω
				Audio in	Approx: 400mV
	Video in	1 Vp-p, 75Ω	Monitor out	Video out	1 Vp-p, 75Ω
	Audio in	Approx: 400mV		Audio out	Approx: 400mV

Remote Control Transmitter : EUR 51979
Battery : R6 (AA) × 2
Dimension (W × D × H) : 800 × 481 × 580 mm
Weight (Net) : 37.5 kg

Note :

Design and Specifications are subject to change without notice.

Matsushita Electric Industrial Co., Ltd
Central P.O. Box 288, Osaka 530-91, Japan